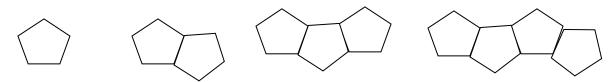
Math I Homework

Name_____

1) Consider the sequence of figures below made from pentagons.



a) Complete the table below for the first five figures.

Figure Number	Perimeter
1	5
2	8
3	
4	
5	

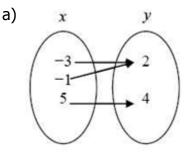
- b) Write a NOW-NEXT equation to find the perimeter of each figure.
- c) Find the perimeter of the 10^{th} figure.
- d) Which number figure has a perimeter of 47?
- 2) List the first 4 values generated by the recursive routine below. Then write the routine as a NOW-NEXT equation.

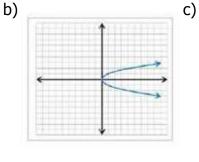
4 ENTER ANS*-3,ENTER

3) Write a NOW-NEXT equation for each sequence. Then use your equation to find the 7th term of each sequence.

a) 5.8, 7.0, 8.2, 9.4, . . . b) 2.5, 5, 10, 20, . . .

4) Determine which of the following relationships are functions. Justify your answer.



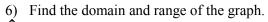


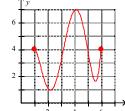


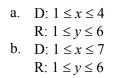
f(x)

х

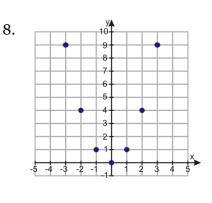
- 5) Answer each question for the graph of *f*(*x*).a) What is the domain of the function?
 - b) What is the range of the function?
 - c) What is f(3)?
 - d) For what values of x does f(x) = 1?
 - e) Is this function discrete or continuous?

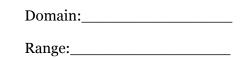






c. D: $2 \le x \le 6$ R: $4 \le y \le 7$ d. D: $1 \le x \le 6$ R: $1 \le y \le 7$





7) Find the domain and range of the graph.

